

# Recombinant Human MYLK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MYLK2-1032H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | MYLK2 MS Standard C13 and N15-labeled recombinant protein (NP_149109) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | This gene encodes a myosin light chain kinase, a calcium/calmodulin dependent enzyme, that is exclusively expressed in adult skeletal muscle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 64.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | <p>MATENGAVELGIQNPSTDKAPKGPTGERPLAAGKDPGPPDPKKAPDPPTLKKDAKA<br/> PASEKGDGTLAQPSTSSQGPKGEGDRGGGPAEGSAGPPAALPQQTATPETS VKKP<br/> KAEQGASGSQDPGKPRVGKAAEGQAAARRGSPAFLHSPSCPAIISSEKLLAKKP<br/> PSEASELTFEGVPMTHSPTDPRPAKAEKGKNI LAESQKEVGEKTPGQAGQAKMQG<br/> DTSRGIEFQAVPSEKSEVGQALCLTAREEDCFQILDDCPPPPAPFPHRMVELRTGNV<br/> SSEFSMNSKEALGGGKFGAVCTCMEKATGLKLA AKVIKKQTPKDKEMVLLIEVMN<br/> QLNHRNLIQLYAAIETPHEIVLFMEYIEGGELFERIVDE DYHLTEVDTMV FVRQICD GIL<br/> FMHKMRVLHLDLKPENILCVNTTGHLVKIIDFGLARRYNPNELKVNFGTPEFLSPEV<br/> VNYDQISDKTDMWSMGVITYMLLSGLSPFLGDDDTETLNNVLSGNWYFDEETFEAV<br/> SDEAKDFVSNLIVKDQ RARMNAAQCLAHPWLNNLA EKAKRCNRRLKSQILLKKYLM<br/> KRRWKKNFIAVSAANRFKKISSSGALMALGVTRTRPLEQKLISEEDLAANDILDYKDD</p> |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
|                       | DDKV                                                                                       |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MYLK2 myosin light chain kinase 2 [ Homo sapiens (human) ]                                                                                                                                                    |
| <b>Official Symbol</b> | MYLK2                                                                                                                                                                                                         |
| <b>Synonyms</b>        | MYLK2; myosin light chain kinase 2; myosin light chain kinase 2, skeletal muscle; myosin light chain kinase 2, skeletal/cardiac muscle; KMLC; MLCK2; skeletal muscle myosin light chain kinase; skMLCK; MLCK; |
| <b>Gene ID</b>         | 85366                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_033118                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_149109                                                                                                                                                                                                     |
| <b>MIM</b>             | 606566                                                                                                                                                                                                        |

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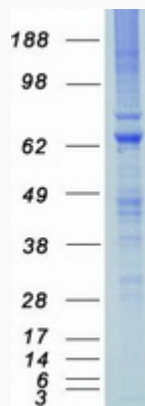
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UniProt ID

Q9H1R3

SDS-PAGE

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